

Atish Ojha

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PROFESSIONAL SUMMARY

Backend Software Engineer with 3.5+ years of experience architecting scalable, high-performance microservices and enterprise-grade systems using Java and Spring Boot. Proven track record designing secure multi-tenant platforms, optimizing database performance, and integrating cloud infrastructure on AWS. Experienced in leading engineering teams, mentoring developers, and delivering reliable, production-grade software across the full development lifecycle – adaptable across industries and problem domains.

TECHNICAL SKILLS

Languages: Java, SQL, Python

Frameworks & Libraries: Spring Boot, Spring Security, Spring Data JPA, Hibernate, RESTful APIs, JWT Authentication

Cloud & DevOps: AWS (EC2, RDS, S3, SQS, SNS, SES), Docker, Kubernetes (CKAD Certified), Jenkins, Git, CI/CD Pipelines

Databases: MySQL, PostgreSQL, ClickHouse, TimescaleDB – query optimization, indexing, schema design, stored procedures, time-series data

Architecture: Microservices, Multi-Tenant Systems, Event-Driven Architecture (RabbitMQ), Model Context Protocol (MCP), Distributed Systems

Practices: Agile/Scrum, Code Review, Technical Documentation, Cross-Functional Collaboration, Team Leadership, Mentoring

EXPERIENCE

Access Systems

Software Engineer

Kathmandu, Nepal

Aug 2025 – Present

- Promoted from Junior Software Engineer to Software Engineer after taking ownership of backend architecture, technical leadership, and enterprise platform development.
- Architected an **MCP (Model Context Protocol)** tool layer enabling AI agents to securely orchestrate backend services through strongly typed schemas, improving automation and system integration.
- Designed and developed 3+ production-grade Java Spring Boot microservices for multi-tenant enterprise platforms, improving scalability and deployment independence.
- Led a team of 4-6 Java and Python engineers by translating business requirements into scalable technical solutions, mentoring developers, and driving engineering best practices.
- Managed deployments across QA, UAT, Staging, and Production environments, ensuring reliable releases and stable production systems.
- Improved API response times by **40%+** through query optimization, database indexing, and data-layer refactoring.
- Redesigned MySQL schemas to improve data integrity, reduce redundancy, and optimize complex reporting and transactional workloads.
- Implemented JWT authentication and Role-Based Access Control (RBAC) across distributed microservices for secure multi-tenant access.
- Built time-series data pipelines using ClickHouse and TimescaleDB to ingest high-volume IoT/sensor data, enabling downstream reporting and analytics.
- Built cloud-native backend services using AWS (EC2, RDS, S3, SQS, SNS, SES) to support scalable, event-driven enterprise applications.
- Collaborated on architecture reviews and technical decisions to improve platform scalability, reliability, and long-term maintainability.

Access Systems

Junior Software Engineer

Kathmandu, Nepal

Apr 2023 – Jul 2025

- Developed and maintained backend services using Java, Spring Boot, Hibernate, and MySQL for business-critical applications.
- Built and enhanced RESTful APIs, implementing new features and resolving production issues.
- Wrote efficient SQL queries, stored procedures, and database migrations while contributing to schema design improvements.

- Participated in code reviews, debugging, testing, and performance optimization, improving application reliability.
- Collaborated with senior engineers to design and implement scalable backend solutions.
- Integrated third-party services and messaging systems such as RabbitMQ to support asynchronous processing.
- Worked with Docker, Git, and Jenkins to support CI/CD pipelines and streamline deployments.
- Maintained applications across QA, UAT, Staging, and Production environments, ensuring smooth releases.
- Contributed to implementing secure authentication using JWT and Spring Security.
- Worked closely with cross-functional teams to deliver features aligned with business requirements while continuously improving coding and engineering practices.

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Lalitpur, Nepal

Java Intern

Jan 2023 – Apr 2023

- Developed Spring Boot applications with RESTful APIs and MySQL, implementing full CRUD workflows following layered architecture principles.
- Applied the DTO pattern to separate business models from API contracts, improving maintainability.
- Integrated AWS S3 for scalable, secure file upload and download functionality.
- Strengthened backend fundamentals including object-oriented programming, collections, exception handling, and SQL.

EDUCATION

University of Sunderland in London / ISMT College

Kathmandu, Nepal

BSc (Hons) Computer Systems Engineering – Information Technology

Nov 2018 – Nov 2022

CERTIFICATIONS

Certified Kubernetes Application Developer (CKAD) – CNCF

[\[View Certificate\]](#)

Software Architecture & Design of Modern Large Scale Systems

[\[View Certificate\]](#)

KEY ACHIEVEMENTS

- Architected and delivered AI-integrated backend systems by implementing Model Context Protocol (MCP) tools, enabling intelligent automation and orchestration over enterprise microservices.
- Designed and delivered 3+ production-grade Java Spring Boot microservices supporting scalable, multi-tenant enterprise platforms.
- Improved system performance with a **40%+ reduction in API latency** through advanced database optimization, indexing strategies, and efficient data access patterns.
- Managed end-to-end deployment lifecycle across QA, UAT, Staging, and Production environments, ensuring stable, low-risk releases.
- Provided technical leadership by mentoring a team of 4-6 Java and Python engineers and driving engineering best practices across development teams.
- Earned the **Certified Kubernetes Application Developer (CKAD)** certification, demonstrating expertise in cloud-native application deployment and Kubernetes orchestration.